

Document History

The document history is provided to track updates and changes to the simulation guide. The version number, seen at the bottom of every page will be updated as each significant change is made to the simulation guide.

Version	Date	Description
1.0	29 Mar 2002	Initial release.
1.0a	30 Apr 2002	Minor correction on page 1-1. (Note: For the printed version of this document, a page insertion change may have been accomplished. In that case, only pages iii, iv, 1-1, and 1-2 will display "Version 1.0a".)
1.0b	30 Apr 2002	Typographical error correction: page iii.

Note: the date of modification is listed on the cover page.

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1: How to Use This Document

I. Introduction

Welcome to the **June 29, 1998** simulation guide! The purpose of this guide is to provide the trainer at a forecast office with guidance on preparing and delivering effective severe weather simulations using this case. This guide is being released in accordance with the Weather Event Simulator Integration and Operations Plan (WES IOP).

Since this document outlines the “answers” to the challenges of the event, it is specifically meant for the use of the trainer only.

A simulation can be as simple (view data and practice using WarnGen) or as involved (pause simulation to discuss warning decisions and the impacts of all data on these decisions) as needed. ***The simulation length can be modified depending on the time available for training, the needs of the trainee, and the focus of the training.*** The simulation can focus on the technology alone, the science alone, or the interactions between these two and the human decision maker (i.e. simulating an actual event). This guide is the second in a series of training guides, each associated with specific cases identified in the WES IOP. With this guide, the trainer can summarize the key points of a particular case, choose the type of simulation appropriate for the trainee, and then see an example of how to run that simulation type.

See Table 1-1 for a description of the layout of this document.

Table 1-1: Simulation Guide Layout

How to Use This Document	
Introduction	The introduction describes contents of the simulation guide and how to use this document.
Simulation Types	This section provides a brief, generic description of the various simulation types, some of which are presented in this document. Read this section to help you decide which type of simulation best fits the needs of the trainee (e.g., one which focuses on interpretation skills, or the use of AWIPS, or timing capabilities, or all the above).

Table 1-1: Simulation Guide Layout

The June 29, 1998 Event	
Overview	The event overview provides a summary of the key components of this event. Read this section to get a brief overview of the type of weather or challenges associated with the case.
Prepared Simulations	
Interval Based Simulation, Situation Awareness Simulation, Virtual Reality Simulation, Case Study Simulation	Prepared simulations are provided in this portion of the simulation guide. Each one contains directions on when to start/stop the simulation, objectives, tasks, expected results, and talking points to help hone in on certain features.
Supporting Data	
Storm Reports	Storm Reports contains a graphical plot of Storm Data and a text list of Storm Data valid for the simulations.
SPC Products	SPC Products contains graphical plots of the watches/outlooks and text discussion SPC products.
Support Materials	Support Materials contains a CWA map and a useful form for documenting issued warnings and advisories.

To prepare to run a simulation, the trainer should read ***How to Use This Document*** as the background necessary to choose and deliver effective simulations. The trainer may wish to modify the provided simulations, or develop their own simulations with specific learning objectives. The prepared simulations are the “scripts” designed for one-on-one training, where ***trainer and trainee participate together for the optimum learning experience***. Training research indicates this is the most effective way to run a simulation. Experience gained from running simulations can be used to guide future training activities.

In order to manage a simulation session, the trainer must be able to run a simulation as documented with the WES install and testing instructions included with the WES software. The simulations will be much more relevant if local WarnGen templates and procedures are created on the WES machine or moved over from the local AWIPS prior to running the simulations. For more detailed information on these techniques as they become available, visit <http://www.comet.ucar.edu/strc/wes/>.